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TS #103623

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11 July 1955

MEMORANDUM TO: A. C. LUNDAHL
Chief, D/GP

FROM :

[REDACTED]

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SUBJECT :

1. Outline of Objectives for Central Interpretation Unit
 2. Description of Objectives for Central Interpretation Unit
 3. Tab A - Estimated Storage Requirements
 4. Tab B - General Outline for Phased Reporting
 5. Tab C - Flow Chart
- Outline of Objectives for
Central Interpretation Unit

I Operational Support

- A. Provide Photo Interpreters for operating bases
- B. Supporting personnel for Interpreter

II Receipt and handling of materials

A. Film (from Rochester)

(1) Original negatives

(a) Aerial cameras

(b) Horizon camera

(c)

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(2) Duplicate positives

(3) Duplicate negatives

(a) For retention

(b) For distribution

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B. Prints

- (1) Charting camera coverage from field
- (2) "Quick-Run" prints from Rochester for plotting purposes
- (3) Final prints (from Rochester)

C. Minicards with approximate latitude and longitude of each print

D. Photo mission data

- (1) Navigational positioning from field
- (2) Camera operation record—from field
- (3) Approximate latitude and longitude—as determined in
Rochester by use of horizon camera

III Plotting

- A. Charting camera coverage from field
- B. "Quick-Run" prints
- C. Preparation of duplicate overlays to be forwarded to field
operating bases
- D. Furnish accurate coordinates of each print to Minicard Section
for correction of latitudes and longitudes
- E. Evaluate coverage
- F. Prepare comprehensive plot for distribution

IV Reporting

A. Phase I

- (1) Check previously designated targets
- (2) Check for new targets
- (3) Assign priority to new targets

- (4) Report will be brief and prepared in minimum length of time

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B. Phase II

- (1) Moderately detailed
- (2) Graphics prepared as required

C. Phase III

- (1) Restricted to items of major importance
- (2) Maximum detail
- (3) Graphics

V General Intelligence support

- A. Provide intelligence analysts with facilities for utilizing aerial photography (Minicard System)
- B. Provide technical assistance in the fields of photo interpretation and photogrammetry as may be required by the individual analyst.
- C. Incorporate all reference photography into Minicard System

VI Liaison

- A. Processing Center at Rochester, New York
- B. ACIC in St. Louis, Missouri
- C. SAC headquarters

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Description of Objectives for Central Interpretation Unit

I Operational Support

A Photo Interpreter will be provided for each operating base. His function will be the location and plotting of charting camera coverage immediately on completion of processing. The amount, location and quality of such coverage will be transmitted to the Central Interpretation Unit (CIU). A set of contact prints will be prepared and shipped to the Unit at the earliest feasible time.

To provide accurate plots with a minimum of delay the Photo Interpreter will require two assistants capable of being trained in the plotting of aerial photography.

II Receipt and Handling of Material

All film will be received from Eastman. The transmittal of material should be so organized so as to prevent the accumulation of large quantities prior to delivery. The handling and storage of continuous moderate shipments may be carried out more efficiently than of occasional large shipments.

Film intended for further distribution will be checked, recorded and transmitted with the least possible delay.

Film for retention will be checked, recorded and filed. Separate files will be established for original negatives, duplicate positive and duplicate negatives.

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Film

The original film will be received as individual negatives. Each negative will be enclosed in a cellophane envelope to allow inspection without physical contact. The film will be grouped in cardboard boxes approximately three inches in width to provide additional protection and facilitate its filing and relocation. This material will have extremely limited access and only used where its superior quality may provide required information.

The duplicate positive will be received in rolls. This material will also be subject to limited access and be used when additional negatives are required for distribution or replacement of existing negatives.

The duplicate negatives will be received in rolls. These will be used to provide the great majority of material used in the preparation of reports, graphics, etc. See Tab A for Storage Details Prints.

A set of charting camera contact prints will be furnished the Unit by the field operating bases. These prints will be used to prepare a final accurate index map and to initiate the First Phase reports. These will possibly provide information as to specific reference material which will be required on arrival of the finished photography. These prints will be filed until arrival of the rectified prints and will then be destroyed.

A set of "Quick-run" prints will be furnished by Eastman at the earliest possible stage in the processing. The prints need only to be of such quality as to enable the preparation of accurate index maps.

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It is essential that such maps be prepared at the earliest possible time to provide field operating forces with actual coverage conditions and to provide the Unit with information for assignment of projects and the procurement of reference material. These prints would be destroyed on arrival of finished prints unless of a quality suitable for use in the actual preparation of reports.

The final prints will in some cases be used in the preparation of reports or until it is possible to prepare duplicate prints for study purposes. In general, these prints will not receive extensive use but remain available as quick reference material. See Tab B for Storage details.

Minicards

A set of minicards will be furnished by Eastman of each print with accompanying information as to its latitude and longitude. These cards will be immediately incorporated into the minicard system. It has been mentioned that minicards of the photography will be prepared at improved scales. Since the available geographic coordinates will only be approximate at such time and would entail preparation of numerous cards, it may conserve time and energy to prepare such cards in the Unit when the final plotting of the material has been accomplished.

Photo Mission Data

Navigational positioning data and camera operation record will be furnished the Unit by the field operating bases. Approximate geographic coordinates will be supplied by Eastman on the basis of Horizon camera

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photography. As this information is received it will be used as a basis for procurement of reference material and project assignments. Such data will be evaluated in the terms of arrival of photography and entered into the minicard system for reference purposes.

III Plotting

Finished accurate index maps will be prepared immediately on the receipt of photography. As previously mentioned, it would greatly expedite matters if a set of contact charting camera prints would be forwarded to the unit directly from the field bases and a set of "Quick-run" prints furnished by Eastman at the earliest possible time.

On completion of any phase of plotting, duplicate overlays will be prepared and furnished the field operating bases. Such overlays will be furnished at a scale compatible with the field base operating procedures.

Accurate geographic coordinates will be determined for the individual prints and this information passed to the Minicard section for possible correction of previously assigned coordinates.

In the process of indexing the photography an evaluation will be carried out as to cloud coverage, quality of detail in shadow areas and losses due to haze. Such information will accompany overlays to field bases to use in establishing standards for flight line spacing.

A comprehensive plot of all project coverage will be maintained and disseminated through proper channels on receipt of each new mission.

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IV Reporting

General

The Photo Interpretation reports are designed to provide the maximum information in a minimum period of time. To fill these requirements the production of reports has been divided into three phases. See Tab B for general outline of reports.

Phase I

This will consist of a brief report on previously designated targets and the location and identification of any new items or areas of interest. It will be prepared and distributed in a minimum period of time. All incoming photography will be covered by this phase.

Phase II

This will be an expansion of the Phase I report with the inclusion of additional specifications and detailed information. Mosaics, sketches and possibly small area map corrections will be provided when required. All incoming photography will be covered by this phase. The information will be suitably prepared and passed to the Minicard section for inclusion in the system.

Phase III

This will be an extremely detailed report and, of necessity, prepared on a highly selective basis. All required graphics and mosaics will be provided.

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V General Intelligence Support

This function of the Unit is designed to combine the storage and recall capabilities of the Minicard system with technical photo interpretation support so as to greatly increase the availability and useability of the intelligence material present in aerial photography.

The direct rapid availability of photography in the Minicard system will allow the intelligence analyst to obtain much required information without requiring outside assistance. Should technical assistance in Photo Interpretation or Photogrammetry be required, it will be immediately accessible with the proper equipment for producing the desired information.

The direct use of the photography by the analyst will greatly reduce the number of minor requirements levied on the photo interpreter and increase the capability for extensive detailed exploitation of such material.

VI Liaison

Direct and frequent contact will be maintained with the Eastman processing center for the purpose of maintaining and improving rate and quality of production.

Constant contact will be maintained with the Aeronautical Chart Plant in St. Louis and in Washington to fully utilize material and experience produced by project Grayback.

Maintain contact with SAC to obtain possible target requirements for the field operating bases.

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TAB A

Storage Space Requirements for Original Negatives,
Duplicate Negatives, Copy Negatives and Contact Prints.

Two basic assumptions were made in the computation of space requirements for the storage of negatives and contact prints. It was assumed that 800,000 feet of film would be utilized and 40% of this film would be usable (all photography of 100% cloud coverage will be destroyed).

Using assumptions listed above, together with data obtained from "Aerial Surveying Equipment," the following storage requirement was compiled.

- A. In one year 290 ft. of shelf space (7 tiers high) will be required to store incoming original negatives.
- B. In one year 200 ft. of shelf space (8 tiers high) will be required to store incoming duplicate positives.
- C. In one year 390 ft. of shelf space (8 tiers high) will be required to store incoming duplicate negatives.
- D. In one year 880 ft. of shelf space will be required to store all incoming negatives.
- E. In one year 220 ft. of shelf space (7 tiers high) will be required to store incoming contact prints.

Based on the above figures, 10,000 sq. ft. will be required for negative and print storage covering a two-year operational period.

The above figure does not take into consideration space requirements

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TAB B

General Outline for Phased Reporting

The following categories were established so as to encompass the majority of targets presently under consideration. Additional targets will be covered in a similar manner with special attention being given to all primary points of interest.

Atomic Installations

Phase I

Buildings

Number

Size

Type

External equipment

General characteristics of area

Transportation facilities

Phase II

Buildings

Height structure analysis

External equipment

Precise measurements

Graphics

Mosaics

Sketches

Establishment of priority for areas requiring additional coverage.

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Phase III

Additional details as requested

Airfields

Phase I

Aircraft

Number

Type

Runways

Number

Size

Facilities

Type

Number

Size

Phase II

Aircraft

Additional study to determine alterations or
modifications

Sketches or enlargements where required

Runways

Surfacing

Extensibility

Drainage

Facilities

Additional study as to capabilities

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Facilities (Cont'd)

New construction activities--type and purpose

Transportation Facilities

Defenses

Type

Number

Size

Pattern

Radar

Type

Number

Pattern

Personnel

Approximation, where possible, of number of personnel
by evaluating barracks areas.

Graphics

Mosaics

Sketches

Establishment of priority for areas requiring additional coverage.

Phase III

Additional details as requested

Urban Areas

Phase I

Industry

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Urban Areas (Cont'd)

Industry (Cont'd)

Amount and type in areas where comparative coverage is not available

Transportation facilities

General characteristics

Phase II

Industry

Moderately detailed plant analysis

Layout sketch

Transportation facilities

Type

Capabilities

General characteristics

Establishment of priority for areas requiring additional coverage

Phase III

Additional details as requested

Rural Areas

Phase I

Transportation

Types

Classification

General Regional Physiography

Vegetation

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Vegetation (Cont'd)

General crop analysis

Establishment of priority for areas requiring additional coverage

Phase III

Additional details as requested

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